

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
19 February 2004 (19.02.2004)

PCT

(10) International Publication Number  
**WO 2004/015204 A1**

(51) International Patent Classification<sup>7</sup>: **E01F 13/02**

(21) International Application Number:  
**PCT/GB2003/003445**

(22) International Filing Date: 7 August 2003 (07.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0218347.3 8 August 2002 (08.08.2002) GB

(71) Applicant (for all designated States except US): **PRIMAC LIMITED** [GB/GB]; 50 High Street, Hungerford, Berkshire RG17 0NE (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PI, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **PRISMALL, Ian, James** [GB/GB]; Roxburghe, Great Common, Inkpen, Hungerford, Berkshire RG17 9QR (GB).

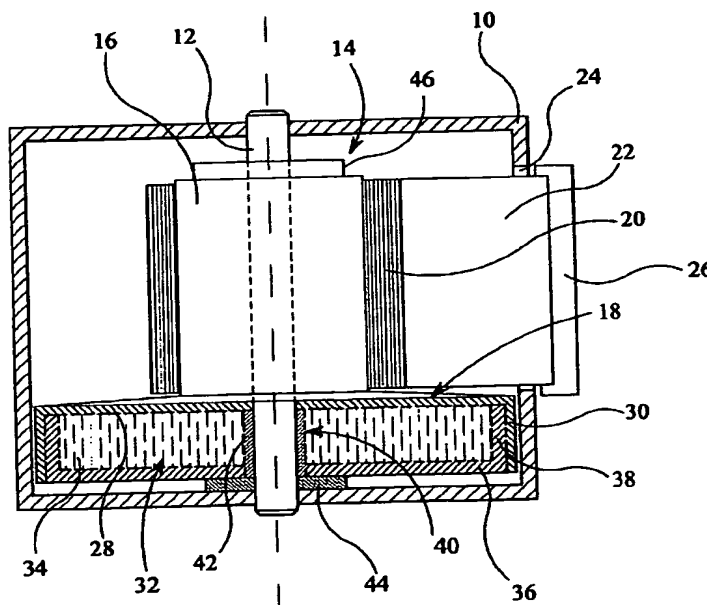
(74) Agent: **BAILEY, Richard, Alan**; Marks & Clerk, 27 Imperial Square, Cheltenham GL50 1RQ (GB).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **RETRACTABLE BARRIER SYSTEM**



(57) Abstract: A retractable barrier system comprises a support member, for example in the form of a housing (10), a spool (14) supported for rotation by the support member, a spring (34) adapted to apply a biasing load to the spool (14), and a skirt (30) arranged to deflect water away from or around the spring (34) thereby reducing the quantity of water impinging, in use, on the spring (34) and reducing corrosion thereof.

WO 2004/015204 A1